

May 18, 1953

Dear Joshua - I have been going over our correspondence and I'm sure. I very foolishly failed to keep a running list of the cultures I sent by you. In the beginning I had no idea there would be so many and I threw them into the diagnostic cultures and kept the usual records in the accession book. I did take the precaution of putting your correspondence in a special file.

Now I must go back thru it and try to figure out all the cultures you have sent, their pedigree and formulas. At the moment SW 1031 has me sent but I'm sure I will find it. After I have completed this list I will send it to you for verification. I'm sure you wonder what I do with my time and so do I. Certainly I get very little accomplished. You will be disgusted to hear that I have not gotten completely over the manuscript. I find it goes very slowly and sometimes I mull over one page for an hour. I will try to finish this soon. I must go to Lexington June 5th or 6th to pick up our elder daughter.

Another thing is becoming apparent. I will have to take over all your cultures. Up to the present time Miss McWhorter has done the usual procedures with them and in many instances reversed phases with single colonies. It is getting to be too much for her.

These girls are very good and very conscientious but they have their limitations. Your cultures have become almost a phobia with her. This is understandable since they are difficult and she has so much other work.

Do not mention this in ^{general} correspondence. I think we should either put her on as a third author or acknowledge her assistance as best suits you.

As I started to say, up to the present I have worked intensively with your more screwy cultures and have done the absorptions. Now I will have to find time to do them all. I think this is best. I don't want to frustrate the girl.

With kindest regards,
Sincerely yours
Phil

P.S. SW 1012 should be C-1,5. Sorry.

2nd P.S. I started copying the protocols but didn't get too far. Am enclosing what I've copied. More later.

3rd P.S. The more I think about it, the more firmly I believe it is impossible to relate phage action to receptors demonstrated by serologic methods. Too many exceptions occur. Until these exceptions are proved to be due to lysogenicity I prefer to think of the two (phage + serology) separately.

Phase variation in *Kunzinsorp*.

Six cultures of *K. kunzinsorp* passed thru 3 tall tubes of semi solid agar and then to agar slant. Loopful of a gr slant growth used to inoculate various semi-solid tubes

24hr reading
Sarcinus

Cultures	1	2	3	4	5	6	7	8	9	10
4150/52	0	1	3	4	2	0	6	15	3	2
1485/52	2	3	0	1R	2	0	1	0	4	3
5521/52	2	5	3	3	1	0	5	0	1	4
879/52	6	5	1	2	5	0	2	3	0	0
4474/52	7	5	3	m	m	0	1	0	6	4
3363/52	1	3	m	m	4	0	2	0	2	4

Sarcinus

- 1 = Berlin abs by 958C
- 2 = " " " 958C'
- 3 = 228 Gr men (- Para A)
- 4 = Brookhead ph 2
- 5 = Wynn 240 ph 2
- 6 = Berlin unabs
- 7 = Berlin abs by Berlin 100C-2 1/2 hrs
- 8 = Kunz unabs.
- 9 = " abs by 958C'
- 10 = " " " Kunz 100C-2 1/2 hrs

48 hr reading

	1	2	3	4	5	6	7	8	9	10
4150/52	1	2	3	4	5	1R	8	2	3	2
1485/52	8	6	m	m	5	0	1	0	4	3
5521/52	4	6	6	7	1	0	5	1	2	4
879/52	7	9	2*	3*	7	2S	2	4	1	3
4474/52	m	m	*	m	*	0	2	0	6	5
3363/52	3	4	m	m	*	0	3	1	4	5

* spreading, bulbs too large to distinguish
m - multiple bulbs, unable to count
S - small
R - rough

numbers refer to number of bulbs spreading from line of stab
Apparently removal of O does the trick. This is a blow to me too

SW 986 - 1530/53

SW 986 Orig. $i > 200; aux > 4000$
 $\rightarrow i > 4000; aux < 200$ ✓
 $\rightarrow i < 200; aux > 4000$ ✓
 $\rightarrow sc \rightarrow i > 200; aux > 400$
 SW 986 sc Orig. $i < 200; aux > 4000$ ✓
 $\rightarrow sc i > 4000; aux < 200$ ✓
 Orig - tube rec'd from Madison
 sc - single colony.

N.B. A priori one would think that Berlin serum was free of c and c' (K-1,5)